

CLAIMS

1. Method for providing a value added service, such as an intelligent network (IN) service, which is available in a first network (5), to a subscriber (3) in a second network (7), in which the first network (5) comprises a first network node (11) for executing the value added service, comprising:
- detecting in a terminating call to the subscriber (3) that the subscriber (3) desires to use the value added service;
  - forwarding control of the call towards the first network node (11) associated with a forwarding number in the first network (5);
  - executing the value added service by the first network node (11), and, when necessary, further directing the call towards the subscriber (3) in the second network (7) associated with the terminating call.
2. Method according to claim 1, further comprising directing the call to the first network node (11) using an indexing register (9; 10), in which the indexing register (9; 10) indicates the type of value added service associated with the forwarding number.
3. Method according to claim 2, in which first network (5) is a public land mobile network (PLMN), the second network (7) is a public switched telephone network (PSTN), the indexing register (10) is a home location register (HLR) of the PLMN, and the first network node (11) is a Service Node (SN) of the PLMN.
4. Method according to claim 3, in which the home location register (HLR) comprises a terminating IN Category Keying (TICK) associated with the forwarding number.
5. Method according to claim 1 or 2, in which the first network (5) is a public switched telephone network (PSTN) and the second network (7) is a public land mobile network (PLMN), and the first network node (11) is a Service Node of the PSTN.

6. Method according to claim 3, 4 or 5, in which the Service Node is a Service Control Point (SCP) or an Application Server (AS) or a Service Capability Server (SCS).

5        7. Method according to one of the proceeding claims, in which the call to a subscriber (3) is forwarded using a Call Forward Unconditional (CFU) mechanism.

8. Method according to claim 7, in which the CFU mechanism is initiated by the subscriber (3).

10

9. Method according to one of the proceeding claims, in which the call is further directed towards the subscriber (3) by overriding the Call Forwarding Unconditional mechanism.

15

10. Method according to one of the proceeding claims, in which the value added service comprise one or more of the following:  
Malicious Call Barring; Personalised Greeting Service; VPN.

20

11. Method for providing a value added service, such as an intelligent network (IN) service, which is available in a first network (5), to a subscriber (3) in a second network (7), in which the first network (5) comprises a first network node (11) for executing the value added service, comprising:

25

- detecting in an originating call from the subscriber (3) that the subscriber (3) desires to use the value added service;
- forwarding control of the call towards the first network node (11) associated with a forwarding number in the first network (5);
- executing the value added service by the first network node (11), and, when necessary, further directing the call towards a destination associated with the call.

30

12. Method according to claim 11, in which the detecting comprises recognizing a match of at least part of a destination number in the call with a special predefined number.

13. Method according to claim 11, in which the detecting comprises recognizing a match of an originating number of the subscriber (3).

5 14. Method according to claim 11, 12 or 13, further comprising directing the call to the first network node (11) using an indexing register (9; 10), in which the indexing register (9; 10) indicates the type of value added service associated with the forwarding number.

10 15. Method according to claim 14, in which first network (5) is a public land mobile network (PLMN), the second network (7) is a public switched telephone network (PSTN), the indexing register (10) is a home location register (HLR) of the PLMN, and the first network node (11) is a Service Node (SN) of the PLMN.

15 16. Method according to one of the claims 11 through 14, in which the first network (5) is a public switched telephone network (PSTN) and the second network (7) is a public land mobile network (PLMN), and the first network node (11) is a Service Node of the PSTN.

20 17. Method according to claim 15 or 16, in which the Service Node is a Service Control Point (SCP) or an Application Server (AS) or a Service Capability Server (SCS).

25 18. Method according to one of the proceeding claims, in which the value added service comprise one or more of the following:  
Outgoing Call Screening; Short Number Dialing; VPN.

30 19. Exchange (8; 12) in a second network (7) for providing communications to a subscriber (3), the second network (7) being interconnectable with a first network (5) having a first network node (11) for executing a value added service, such as an intelligent network (IN) service, the exchange (8; 12) being arranged for:  
- detecting in a terminating call the desire of the subscriber (3) to use a value added service provided by a first network node (11) of the first network (5);

- forwarding control of the call towards the first network node (11) associated with a forwarding number in the first network (5); and
- when necessary, after execution of the value added service by the first network node (11), further directing the call towards the subscriber (3) in the second network (7) associated with the terminating call.

20. Exchange (8, 12) in a second network (7) for providing communications to a subscriber (3), the second network (7) being interconnectable with a first network (5) having a first network node (11) for executing a value added service, such as an intelligent network (IN) service, the exchange (8; 12) being arranged for:

- detecting in an originating call the desire of the subscriber (3) to use the value added service provided by a first network node (11) of the first network (5);
- forwarding control of the call towards the first network node (11) associated with a forwarding number in the first network (5); and
- when necessary, after execution of the value added service by the first network node (11), further directing the call towards a destination associated with the originating call.

21. Exchange according to claim 19 or 20, in which the first network (5) is a public land mobile network (PLMN), the second network (7) is a public switched telephone network (PSTN), and the first network node (11) is a Service Node (SN) of the PLMN.

22. Exchange according to claim 19 or 20, in which the first network (5) is a public switched telephone network (PSTN) and the second network (7) is a public land mobile network (PLMN), and the first network node (11) is a Service Node of the PSTN.

23. Indexing register (9; 10) associated with a service node of a first network (5), for providing a value added service, such as an intelligent network (IN) service, which is available in the first network (5), to a subscriber (3) in a second network (7), in which the service node is arranged for executing the value added service,

the indexing register (9; 10) being arranged to indicate the type of value added service associated with a forwarding number to the service node after receiving control of a terminating call to the subscriber (3), the terminating call comprising an indication that the subscriber (3) desires to use the value added service.

5

24. Indexing register (9; 10) associated with a service node of a first network (5), for providing a value added service, such as an intelligent network (IN) service, which is available in the first network (5), to a subscriber (3) in a second network (7), in which the service node is arranged for executing the value added service,

10 the indexing register (9; 10) being arranged to indicate the type of value added service associated with a forwarding number to the service node after receiving control of an originating call from the subscriber (3), the originating call comprising an indication that the subscriber (3) desires to use the value added service.

15 25. Indexing register according to claim 23 or 24, in which first network (5) is a public land mobile network (PLMN), the second network (7) is a public switched telephone network (PSTN), the indexing register being a home location register (HLR) of the PLMN, and the first network node (11) is a Service Node (SN) of the PLMN.

20 26. Indexing register according to claim 25, in which the home location register (HLR) comprises a terminating IN Category Keying (TICK) associated with the forwarding number.

25 27. Indexing register according to claim 23 or 24, in which the first network (5) is a public switched telephone network (PSTN) and the second network (7) is a public land mobile network (PLMN), and the first network node (11) is a Service Node of the PSTN.

30 28. Indexing register according to claim 23, 24, 25 or 26, in which the Service Node is a Service Control Point (SCP) or an Application Server (AS)) or a Service Capability Server (SCS).

29. Service node (11) for executing a value added service, such as an intelligent network (IN) service, which service node (11) is part of a first network (5), the first network (5) being interconnectable with a second network (7), the second network (7) being arranged for providing communications to a subscriber (3),

5 the service node (11) being arranged to execute the value added service after receiving control of a terminating call to or originating call from the subscriber (3), the terminating or originating call comprising an indication that the subscriber (3) desires to use the value added service, and when necessary, further directing the call towards a destination associated with the call.

10

30. Service node according to claim 29, in which the service node (11) is a Service Control Point (SCP) or an Application Server (AS) or a Service Capability Server (SCS).

15

31. Service node according to claim 29 or 30, in which the call is a terminating call, the control of the terminating call is received by the service node (11) using a Call Forward Unconditional mechanism, and the service node (11) is further arranged to further direct the call towards the subscriber (3) by overriding the Call Forwarding Unconditional mechanism.

20

32. Communication system comprising a first and a second network (7), the first network (5) comprising a first network node (11) being arranged to provide a value added service, such as an IN service,

25 the second network (7) comprising an exchange (8; 12) according to one of the claims 19 through 22,

the first network node (11) being arranged for executing the value added service.

30 28.

33. Communication system according to claim 32, in which the communication system further comprises an indexing register (9; 10) according to one of the claims 23-

34. Communication system according to claim 32 or 33, in which the communication system further comprises a service node (11) according to one of the claims 29-31.

\*\*\*\*\*